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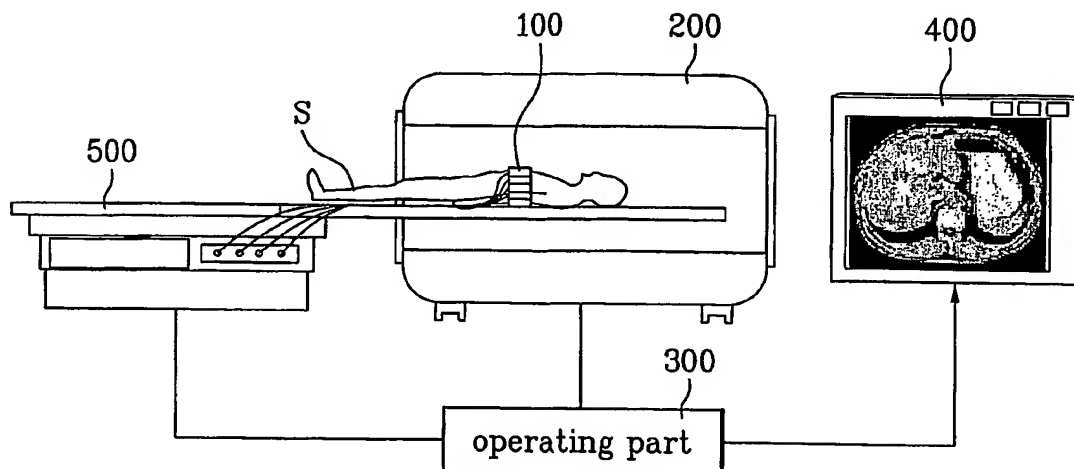
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(54) Title: SYSTEM AND METHOD FOR THREE-DIMENSIONAL VISUALIZATION OF CONDUCTIVITY AND CURRENT DENSITY DISTRIBUTION IN ELECTRICALLY CONDUCTING OBJECT



(57) Abstract: System for visualizing conductivity and current density distributions including a plurality of current injecting devices for injecting currents into a measuring object, an MRI scanner for measuring one directional component of a magnetic flux density due to each of the currents injected into a measuring object, an operating part for controlling the current injecting devices so as to inject currents of different directions into the measuring object, and calculating a conductivity distribution and a current density distribution inside of the measuring object by using the one directional component of a magnetic flux density, and displaying means for visualizing the conductivity and current density distributions calculated by the operating part, thereby permitting to visualize the conductivity and the current density of the measuring object more accurately.



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